

## **REMARKS**

Claims 1-20 are now pending in the application. The Examiner is respectfully requested to reconsider and withdraw the rejection in view of the amendments and remarks contained herein.

### **REJECTION UNDER 35 U.S.C. § 101**

Claims 1-7, 11 and 18-20 stand rejected under 35 U.S.C. § 101 because the claimed invention is allegedly directed to non-statutory subject matter and for lacking a useful, concrete, or tangible result for a statutory claim. This rejection is respectfully traversed.

By way of the present Amendment, Applicants have amended independent Claims 1, 8, and 18 to recite “outputting an integrated design topology solution for fabrication of the interbody fusion case in response to the macroscopic structural layout and the microscopic structural layout”, “integrating and outputting the global layout and microscopic topology solutions for fabrication of the interbody fusion case”, and “defining and outputting a porous microstructure for the cage by generating periodic microstructures for the regions having the high porosity solid phase and low porosity solid phase using a microstructure topology optimization method”, respectively. Applicants submit that the independent claims recite a practical application in the technological arts in that a useable output is generated for fabrication of the interbody fusion cage. Reconsideration and withdrawal of the present rejection are respectfully requested.

### ALLOWABLE SUBJECT MATTER


The Examiner states that Claims 8-10 and 12-17 would be allowable if rewritten in independent form. At the outset, Applicants note that Claim 8 is currently in independent form and the remaining indicated claims are dependent thereon, at least indirectly. Applicants respectfully request clarification on the present indication of allowability.

### CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action and the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

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